

**To:** Stalcup, Dana[Stalcup.Dana@epa.gov]; Mahmud, Shahid[Mahmud.Shahid@epa.gov]  
**Cc:** Dymment, Stephen[Dymment.Stephen@epa.gov]  
**From:** Heimerman, Jeffrey  
**Sent:** Wed 8/12/2015 1:59:12 PM  
**Subject:** FW: Catchment modeling- Upper Animas

FYI only. Just wanted you to know that there was some planning work going on even before the incident. I can fill you in on this tool of which we have recently have identified. Relevant ERT staff quite impressed with the potential. Steve can fill you in on his interest.

**From:** Dymment, Stephen  
**Sent:** Tuesday, August 11, 2015 4:08 PM  
**To:** Powell, Dan; Bussey, Donald  
**Cc:** Jefferson, Matthew; Heimerman, Jeffrey  
**Subject:** Catchment modeling- Upper Animas

Dan,

I left you a voicemail earlier and just tried Matt but he is out of the country for another week. I called Jeff too just to chat because he is aware of the new catchment water modeling capabilities under SERAS. The RPM for the upper Animas approached me several days prior to the Gold King Mine incident we are currently dealing with in R8, R6, and R9 and wanted to discuss development of a CSM. We talked again yesterday and I also briefly spoke with Henry He who is working through Don Bussey and SERAS to provide the catchment water modeling service.

I think this might be a good opportunity to try out the catchment modeling approach. I need to get with Don Bussey to see what he thinks this might cost but according to my discussions with Henry He they can produce these models in just a few days. I'm hoping this can be a joint venture between TIFSD and ORD/R8 to try this on a site where the RPM desperately needs to begin developing a preliminary CSM and the watershed approach may prove valuable for looking at the hundreds of others mines, adits, tailings, and other mine infrastructure that exist up there. Armed with this as a starting point I'm hoping that we can better utilize all the data at the RPMs disposal and have an improved understanding of the surface and groundwater flow regimes in the basin such that we can optimize future sampling and remediation efforts.

Please contact me ASAP if you are interested.

Stephen Dymant

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